

RECEIVED
95 DEC 22 AM 11:58
GROUP 260

PATENT
Docket No. 5634.104

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#6

Inventors: John C. Harvey and James W. Cuddihy

Serial No.: 08/446,553

Filing Date: May 19, 1995

For: Signal Processing Apparatus and Methods

Group Art Unit: 2602/348

Examiner:

Assistant Commissioner of Patents
Washington D.C. 20231

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56(a) and in conformance with the procedures of 37 C.F.R. §§ 1.97-98 and M.P.E.P. § 609, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449.

The above-referenced application claims priority under 35 U.S.C. § 120 of the following applications:

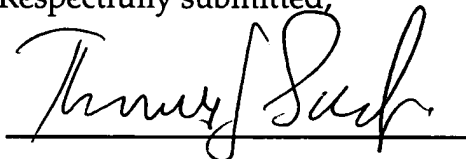
| <u>Serial No.</u> | <u>Filing Date</u> | <u>Patent No.</u> |
|-------------------|--------------------|-------------------|
| 08/113,329 | August 30, 1993 | Pending |
| 08/056,501 | May 3, 1993 | 5,335,277 |
| 07/849,226 | March 10, 1992 | 5,233,654 |
| 07/588,126 | September 25, 1990 | 5,109,414 |
| 07/096,096 | September 11, 1987 | 4,965,825 |

Applicants believe that all references cited on the attached PTO 1449 form were cited by or submitted to the PTO in one or more of the cases cited above or in U.S. Patent Application Serial No. 06/829,531, filed February 15, 1986 now U.S. Patent No. 4,704,725 and/or U.S. Patent Application Serial No. 06/317,510, filed November 3, 1981 now U.S. Patent No. 4,694,490. Therefore, no copies of the listed references are provided herewith. It is respectfully requested that the information above be expressly considered during the prosecution of this Application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

CERTIFICATION AND/OR FEE

Since this IDS is being filed pursuant to 37 C.F.R § 1.97(b) before the later of three months after the filing date of the above-referenced application or the date of receipt of the first Office Action on the merits, no certification or fee is required.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read "Thomas J. Scott, Jr.", written over a horizontal line.

Thomas J. Scott, Jr. (Reg. No. 27,836)

Dated: December 15, 1995

HOWREY & SIMON
1299 Pennsylvania, N.W.
Washington, D.C. 20004-2402
(202) 783-0800 (telephone)
(202) 383-6610 (telcopier)

| | | |
|---|--|--------------------------|
| PTO 1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

U.S. Patent Documents

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|----------------|-----------------|--------------------|-----------------|
| | 2,511,085 | June 13, 1950 | Smith | 179/1 | |
| | 2,573,349 | Oct. 30, 1951 | Miller et al. | 177/353 | |
| | 2,769,023 | Oct. 30, 1956 | Loew et al. | 178/5.1 | |
| | 2,788,387 | Apr. 9, 1957 | Druz | 178/5.1 | |
| | 2,864,885 | Dec. 16, 1958 | Morris | 178/5.1 | |
| | 2,866,962 | Dec. 30, 1958 | Ellet | 340/147 | |
| | 3,016,091 | Jan. 9, 1962 | Daniele | 162/391 | |
| | 3,071,642 | Jan. 1, 1963 | Mountjoy et al. | 178/5.1 | |
| | 3,213,201 | Oct. 19, 1965 | Flood et al. | 179/15 | |
| | 3,238,297 | Mar. 1, 1966 | Pawley et al. | 178/22 | |
| | 3,363,250 | Jan. 9, 1968 | Jacobson | 343/225 | |
| | 3,493,674 | Feb., 1970 | Houghton | 178/5.6 | |
| | 3,531,586 | Sept. 29, 1970 | Bass et al. | 178/6 | |
| | 3,536,833 | Oct. 27, 1970 | Guanella | 178/22 | |
| | 3,569,937 | Mar. 9, 1971 | Hoetter | 340/171 | |
| | 3,573,747 | Apr. 6, 1971 | Adams et al. | 340/172.5 | |
| | 3,584,142 | June 8, 1971 | Schoeffler | 178/6.8 | |
| | 3,601,528 | Aug. 24, 1971 | McVoy | 178/5.1 | |
| | 3,609,697 | Sept. 28, 1971 | Blevins et al. | 340/172.5 | |
| | 3,657,699 | Apr. 18, 1972 | Rocher et al. | 340/146.1 | |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|---|---------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|----------------|-----------------|--------------------|-----------------|
| | 3,659,046 | Apr. 25, 1972 | Angeleri et al. | 178/22 | |
| | 3,668,307 | June 6, 1972 | Face et al. | 178/5.6 | |
| | 3,684,823 | Aug. 15, 1972 | McVoy | 178/5.1 | |
| | 3,693,090 | Sept. 19, 1972 | Gabriel | 325/308 | |
| | 3,703,684 | Nov. 21 1972 | McVoy | 325/31 | |
| | 3,725,672 | Apr. 3, 1973 | Reuter | 307/208 | |
| | 3,729,581 | Apr. 24, 1973 | Anderson | 178/6.8 | |
| | 3,731,197 | May 1, 1973 | Clark | 325/32 | |
| | 3,733,430 | May 15, 1973 | Thompson et al. | 178/5.1 | |
| | 3,736,369 | May 29, 1973 | Vogelman et al. | 178/5.1 | |
| | 3,749,845 | July 31, 1973 | Fraser | 179/15 | |
| | 3,752,908 | Aug. 14, 1973 | Boenke et al. | 178/5.6 | |
| | 3,757,225 | Sep. 4, 1973 | Ukicki | 325/308 | |
| | 3,773,977 | Nov. 20, 1973 | Guanella | 179/1.5 | |
| | 3,777,053 | Dec. 4, 1973 | Wittig et al. | 178/5.1 | |
| | 3,789,137 | Jan. 29, 1974 | Newell | 178/6.6 | |
| | 3,790,700 | Feb. 5, 1974 | Callais et al. | 178/5.1 | |
| | 3,798,359 | Mar. 19, 1974 | Feistel | 178/22 | |
| | 3,798,610 | Mar. 19, 1974 | Bliss et al. | 340/172.5 | |
| | 3,803,491 | Apr. 9, 1974 | Osborn | 325/53 | |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|--|--------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|----------------|------------------|--------------------|-----------------|
| | 3,806,814 | Apr. 23, 1974 | Forbes | 325/309 | |
| | 3,819,852 | June 25, 1974 | Wolf | 178/5.6 | |
| | 3,824,332 | July 16, 1974 | Horowitz | 178/5.1 | |
| | 3,824,467 | July 16, 1974 | French | 325/32 | |
| | 3,825,893 | July 23, 1974 | Bossen et al. | 340/146.1 | |
| | 3,833,757 | Sept. 3, 1974 | Kirk, Jr. et al. | 178/5.6 | |
| | 3,835,387 | Sep. 10, 1974 | Rookes et al. | 325/55 | |
| | 3,842,196 | Oct. 15, 1974 | Louglin | 358/12 | |
| | 3,845,391 | Oct. 29, 1974 | Crosby | 325/64 | |
| | 3,848,193 | Nov. 12, 1974 | Martin et al. | 325/53 | |
| | 3,882,392 | May 6, 1975 | Harney | 325/53 | |
| | 3,885,089 | May 20, 1975 | Callais et al. | 178/5.1 | |
| | 3,886,302 | May 27, 1975 | Kosco | 178/5.1 | |
| | 3,886,454 | May 27, 1975 | Oakley et al. | 325/52 | |
| | 3,890,461 | June 17, 1975 | Vogelman et al. | 178/5.1 | |
| | 3,891,792 | June 24, 1975 | Kimura | 178/5.8R | |
| | 3,893,031 | July 1, 1975 | Majeau et al. | 325/32 | |
| | 3,894,176 | July 8, 1975 | Mellon | 178/5.1 | |
| | 3,899,633 | Aug. 12, 1975 | Sorenson et al. | 178/5.1 | |
| | 3,911,216 | Oct. 7, 1975 | Bartek et al. | 178/22 | |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|--|--------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|----------------|--------------------|--------------------|-----------------|
| | 3,914,534 | Oct. 21, 1975 | Forbes | 178/5.1 | |
| | 3,916,091 | Oct. 28, 1975 | Kirk, Jr. et al. | 178/5.1 | |
| | 3,919,462 | Nov. 11, 1975 | Hartung et al. | 178/5.1 | |
| | 3,921,151 | Nov. 18, 1975 | Guanella | 340/172.5 | |
| | 3,924,187 | Dec. 2, 1975 | Dormans | 325/52 | |
| | 3,934,079 | Jan. 20, 1976 | Barnhart | 178/5.1 | |
| | 3,936,593 | Feb. 3, 1976 | Aaronson et al. | 178/5.1 | |
| | 3,936,594 | Feb. 3, 1976 | Schubin et al. | 178/5.1 | |
| | 3,936,595 | Feb. 3, 1976 | Yanagimachi et al. | 178/5.6 | |
| | 3,943,447 | Mar. 9, 1976 | Shomo, III | 325/308 | |
| | 3,947,882 | Mar. 30, 1976 | Lightner | 360/92 | |
| | 3,949,313 | Apr. 6 1976 | Tamada et al. | 329/106 | |
| | 3,956,615 | May 11, 1976 | Anderson et al. | 235/61.7B | |
| | 3,970,790 | July 20, 1976 | Guanella | 179/1.5S | |
| | 3,975,583 | Aug. 17, 1976 | Meadows | 175/5.6 | |
| | 3,978,449 | Aug. 31, 1976 | Sanders et al. | 340/146.1 | |
| | 3,987,398 | Oct. 19, 1976 | Fung | 325/309 | |
| | 3,988,528 | Oct. 26, 1976 | Yanagimachi et al. | 178/5.6 | |
| | 3,997,718 | Dec. 14, 1976 | Ricketts et al. | 178/6.8 | |
| | 4,024,574 | May 17, 1977 | Nieson | 358/117 | |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|--|--------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|----------------|--------------------|--------------------|-----------------|
| | 4,025,851 | May 24, 1977 | Hazelwood et al. | 325/31 | |
| | 4,025,947 | May 24, 1977 | Michael | 358/86 | |
| | 4,025,948 | May 24, 1977 | Loshin | 358/122 | |
| | 4,031,548 | June 21, 1977 | Kato et al. | 358/188 | |
| | 4,048,619 | Sept. 13, 1977 | Forman, Jr. et al. | 340/154 | |
| | 4,049,906 | Sept. 20, 1977 | Hafner et al. | 178/2C | |
| | 4,054,911 | Oct. 18, 1977 | Fletcher et al. | 358/141 | |
| | 4,058,830 | Nov. 15, 1977 | Gulnet et al. | 358/86 | |
| | 4,068,264 | Jan. 10, 1978 | Pires | 358/122 | |
| | 4,079,419 | Mar. 14, 1978 | Siegle et al. | 358/193 | |
| | 4,081,612 | Mar. 28, 1978 | Hafner | 179/15BA | |
| | 4,081,753 | Mar. 28, 1978 | Miller | 325/396 | |
| | 4,081,831 | Mar. 28, 1978 | Tang et al. | 358/114 | |
| | 4,091,417 | May 23, 1978 | Nieson | 358/117 | |
| | 4,104,486 | Aug. 1, 1978 | Martin et al. | 179/2 | |
| | 4,107,735 | Aug. 15, 1978 | Frohbach | 358/84 | |
| | 4,112,464 | Sept. 5, 1978 | Gulf et al. | 358/122 | |
| | 4,115,662 | Sept. 19, 1978 | Gulnet et al. | 179/15BV | |
| | 4,115,807 | Sept 19, 1978 | Pires | 358/122 | |
| | 4,120,030 | Oct. 10, 1978 | Johnstine | 364/200 | |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|--|--------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|----------------|----------------|--------------------|-----------------|
| | 4,130,833 | Dec. 19, 1978 | Choenet | 358/122 | |
| | 4,131,881 | Dec. 26, 1978 | Robinson | 340/167R | |
| | 4,138,726 | Feb. 6, 1979 | Girault et al. | 364/521 | |
| | 4,160,120 | July 3, 1979 | Barnes et al. | 178/22 | |
| | 4,161,751 | July 17, 1979 | Ost | 358/114 | |
| | 4,163,254 | July 31, 1979 | Block et al. | 358/122 | |
| | 4,163,255 | July 31, 1979 | Pires | 358/122 | |
| | 4,168,396 | Sept. 18, 1979 | Best | 178/22 | |
| | 4,170,782 | Oct. 9, 1979 | Miller | 358/84 | |
| | 4,171,513 | Oct. 16, 1979 | Otey et al. | 325/32 | |
| | 4,172,213 | Oct. 23, 1979 | Barnes et al. | 178/22 | |
| | 4,186,413 | Jan. 29, 1980 | Mortimer | 358/146 | |
| | 4,196,310 | Apr. 1, 1980 | Forman et al. | 178/22 | |
| | 4,200,770 | Apr. 29, 1980 | Hellman et al. | 178/22 | |
| | 4,200,913 | Apr. 29, 1980 | Kuhar et al. | 364/900 | |
| | 4,205,343 | May 27, 1980 | Barrett | 358/147 | |
| | 4,213,124 | July 15, 1980 | Barda et al. | 340/706 | |
| | 4,215,366 | July 29, 1980 | Davidson | 358/124 | |
| | 4,215,370 | July 29, 1980 | Kirk, Jr. | 358/146 | |
| | 4,225,884 | Sept. 30, 1980 | Block et al. | 358/122 | |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|---|---------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|----------------|------------------|--------------------|-----------------|
| | 4,225,967 | Sep. 30, 1980 | Miwa et al. | 455/68 | |
| | 4,230,990 | Oct. 28, 1980 | Lert, Jr et al. | 455/67 | |
| | 4,232,193 | Nov. 4, 1980 | Gerard | 179/1.5R | |
| | 4,236,217 | Nov. 25, 1980 | Kennedy | 364/483 | |
| | 4,237,484 | Dec. 2, 1980 | Brown et al. | 358/142 | |
| | 4,245,245 | Jan. 13, 1981 | Matsumoto et al. | 358/122 | |
| | 4,247,106 | Jan. 27, 1981 | Jeffers et al. | 273/85G | |
| | 4,250,524 | Feb. 10, 1981 | Tomizawa | 358/122 | |
| | 4,253,114 | Feb. 24, 1981 | Tang et al. | 358/114 | |
| | 4,253,157 | Feb. 24, 1981 | Kirschner et al. | 364/900 | |
| | 4,262,329 | Apr. 14, 1981 | Bright et al. | 364/200 | |
| | 4,264,924 | Apr. 28, 1981 | Freeman | 358/86 | |
| | 4,264,925 | Apr. 28, 1981 | Freeman et al. | 358/86 | |
| | 4,266,243 | May 5, 1981 | Shutterly | 358/121 | |
| | 4,275,411 | June 23, 1981 | Lippel | 358/13 | |
| | 4,283,602 | Aug. 11, 1981 | Adams et al. | 179/1.5R | |
| | 4,284,976 | Aug. 18, 1981 | Gable et al. | 340/147 | |
| | 4,286,281 | Aug. 25 1981 | Suzuki | 358/4 | |
| | 4,287,592 | Sept. 1, 1981 | Paulish et al. | 370/88 | |
| | 4,288,809 | Sept. 8, 1981 | Yabe | 358/12 | |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|--|--------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|----------------|------------------|--------------------|-----------------|
| | 4,290,141 | Sept. 15, 1981 | Anderson et al. | 455/2 | |
| | 4,290,142 | Sept. 15, 1981 | Schnee et al. | 455/3 | |
| | 4,292,650 | Sept. 29, 1981 | Henderickson | 358/173 | |
| | 4,295,223 | Oct. 13, 1981 | Shutterly | 455/72 | |
| | 4,302,771 | Nov. 24, 1981 | Gargini | 358/86 | July 23, 1980 |
| | 4,304,990 | Dec. 8, 1981 | Atalla | 235/380 | Feb. 4, 1980 |
| | 4,305,101 | Dec. 8, 1981 | Yarbrough et al. | 360/69 | Apr. 16, 1979 |
| | 4,305,131 | Dec. 8, 1981 | Best | 364/521 | |
| | 4,305,131 | Dec. 8, 1981 | Best | 364/521 | Mar. 31, 1980 |
| | 4,306,289 | Dec. 15, 1981 | Lumley | 364/200 | Feb. 4, 1980 |
| | 4,306,305 | Dec. 15, 1981 | Doi et al. | 371/38 | Oct. 19, 1979 |
| | 4,307,446 | Dec. 22, 1981 | Barton et al. | 364/200 | May 2, 1979 |
| | 4,310,854 | Jan. 12, 1982 | Baer | 358/143 | Aug. 29, 1979 |
| | 4,312,016 | Jan. 19, 1982 | Glaab et al. | 358/188 | Feb. 2, 1979 |
| | 4,313,132 | Jan. 26, 1982 | Doles et al. | 358/114 | Oct. 31, 1979 |
| | 4,314,367 | Feb. 2, 1982 | Bakka et al. | 370/60 | Jan. 17, 1980 |
| | 4,316,055 | Feb. 16, 1982 | Feistel | 178/22.06 | Dec. 30, 1976 |
| | 4,316,245 | Feb. 16, 1982 | Luu et al. | 364/200 | Dec. 7, 1978 |
| | 4,318,125 | Mar. 2, 1982 | Shutterly | 358/121 | Apr. 25, 1979 |
| | 4,319,079 | Mar. 9, 1982 | Best | 178/22.09 | Jan. 17, 1980 |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|--|--------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|----------------|--------------------|--------------------|-----------------|
| | 4,322,745 | Mar. 30, 1982 | Saeki et al. | 358/123 | Mar. 21, 1980 |
| | 4,323,921 | Apr. 6, 1982 | Guillou | 358/114 | Jan. 23, 1980 |
| | 4,323,922 | Apr. 6, 1982 | den Toonder et al. | 358/117 | Dec. 17, 1979 |
| | 4,325,078 | Apr. 13, 1982 | Seatom et al. | 358/117 | Nov. 20, 1979 |
| | 4,329,675 | May 11, 1982 | Van Hulle | 358/86 | Sep. 23, 1980 |
| | 4,329,684 | May 11, 1982 | Monteath et al. | 340/707 | Jan. 15, 1980 |
| | 4,331,973 | May 25, 1982 | Eskin et al. | 358/84 | Oct. 20, 1980 |
| | 4,331,974 | May 25, 1982 | Cogswell et al. | 358/86 | Oct. 21, 1980 |
| | 4,332,980 | June 1, 1982 | Reynolds et al. | 179/2A | May 30, 1980 |
| | 4,333,152 | June 1, 1982 | Best | 364,521 | June 13, 1980 |
| | 4,334,242 | June 8, 1982 | Mangold | 358/127 | Jan. 14, 1980 |
| | 4,336,553 | June 22, 1982 | den Toonder et al. | 358/120 | May 14, 1980 |
| | 4,336,559 | June 22, 1982 | Koyama et al. | 360/73 | Nov. 9, 1978 |
| | 4,337,480 | June 29, 1982 | Bourassin et al. | 358/93 | Feb. 8, 1990 |
| | 4,337,483 | June 29, 1982 | Guillou | 358/114 | Jan. 31, 1980 |
| | 4,338,628 | July 6, 1982 | Payne et al. | 358/120 | Dec. 19, 1979 |
| | 4,339,798 | July 13, 1982 | Hedges et al. | 364/412 | Dec. 17, 1979 |
| | 4,340,903 | July 20, 1982 | Tamura | 358/10 | Aug. 6, 1980 |
| | 4,347,498 | Aug. 31, 1982 | Lee et al. | 340/825.02 | Nov. 21, 1979 |
| | 4,347,532 | Aug. 31, 1982 | Korver | 358/183 | Oct. 14, 1980 |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|--|--------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|----------------|--------------------|--------------------|-----------------|
| | 4,353,088 | Oct. 5, 1982 | den Toonder et al. | 358/120 | May 14, 1980 |
| | 4,354,201 | Oct. 12, 1982 | Sechet et al. | 358/122 | June 11, 1980 |
| | 4,355,372 | Oct. 19, 1982 | Johnson et al. | 364/900 | Dec. 24, 1980 |
| | 4,360,827 | Nov. 23, 1982 | Braun | 358/85 | June 2, 1981 |
| | 4,361,730 | Nov. 30, 1982 | Barber et al. | 179/5 R | Aug. 29, 1980 |
| | 4,361,877 | Nov. 30, 1982 | Dyer et al. | 364/900 | Feb. 5, 1980 |
| | 4,364,081 | Dec. 14, 1982 | Hashimoto et al. | 358/13 | Apr. 16, 1981 |
| | 4,365,110 | Dec. 21, 1982 | Lee et al. | 178/22.10 | June 5, 1979 |
| | 4,367,548 | Jan. 4, 1983 | Cotten, Jr. et al. | 370/3 | Apr. 10, 1980 |
| | 4,367,557 | Jan 4, 1983 | Stern et al. | 455/4 | May 25, 1979 |
| | 4,375,579 | Mar. 1, 1983 | Davida et al. | 178/22.10 | Jan. 30, 1980 |
| | 4,375,651 | Mar. 1, 1983 | Templin et al. | 358/191.1 | July 27, 1981 |
| | 4,379,205 | Apr. 5, 1983 | Wyner | 178/22.10 | June 22, 1979 |
| | 4,381,522 | Apr. 26, 1983 | Lambert | 358/86 | Dec. 1, 1980 |
| | 4,383,257 | May 10, 1983 | Giallanza et al. | 340/825.47 | Dec. 12, 1980 |
| | 4,388,643 | June 14, 1983 | Aminetzah | 358/123 | Apr. 6, 1981 |
| | 4,388,645 | June 14, 1983 | Cox et al. | 358/147 | Apr. 13, 1981 |
| | 4,389,671 | June 21, 1983 | Posner et al. | 358/124 | Sept. 29, 1980 |
| | 4,390,898 | June 28, 1983 | Bond et al. | 358/119 | Mar. 23, 1981 |
| | 4,390,901 | June 28, 1983 | Keiser | 358/147 | Oct. 16, 1980 |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|--|--------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|----------------|--------------------|--------------------|-----------------|
| | 4,390,904 | June 28, 1983 | Johnston et al. | 358/335 | Sep. 20, 1979 |
| | 4,394,687 | July 19, 1983 | Hutt et al. | 358/147 | Apr. 30, 1980 |
| | 4,394,691 | July 19, 1983 | Amano et al. | 358/194.1 | July 30, 1981 |
| | 4,394,762 | July 19, 1983 | Nabeshima | 371/38 | Jan. 6, 1981 |
| | 4,395,757 | July 26, 1983 | Bienvenu et al. | 364/200 | Apr. 14, 1981 |
| | 4,396,947 | Aug. 2, 1983 | Cheung | 358/124 | Mar. 26, 1980 |
| | 4,398,216 | Aug. 9, 1983 | Field et al. | 358/121 | Sept. 19, 1980 |
| | 4,400,587 | Aug. 23, 1983 | Taylor et al. | 179/27D | Aug. 25, 1981 |
| | 4,404,589 | Sept. 13, 1983 | Wright, Jr. | 358/86 | Oct. 21, 1980 |
| | 4,405,942 | Sept. 20, 1983 | Block et al. | 358/119 | Mar. 3, 1982*** |
| | 4,410,917 | Oct. 18, 1983 | Newdoll et al. | 360/15 | Sept. 14, 1981 |
| | 4,413,339 | Nov. 1, 1983 | Riggle et al. | 371/38 | June 24, 1981 |
| | 4,422,105 | Dec. 20, 1983 | Rodesch et al. | 358/903 | Sep. 30, 1980 |
| | 4,424,532 | Jan. 3, 1984 | den Toonder et al. | 358/120 | May 9, 1983*** |
| | 4,425,581 | Jan. 10, 1984 | Scweppe et al. | 358/148 | Apr. 17, 1981 |
| | 4,430,731 | Feb. 7, 1984 | Gimple et al. | 370/30 | Apr. 29, 1981 |
| | 4,433,207 | Feb. 21, 1984 | Best | 178/22.09 | Sept. 10, 1981 |
| | 4,434,323 | Feb. 28, 1984 | Levine et al. | 178/22.17 | June 29, 1981 |
| | 4,434,436 | Feb. 28, 1984 | Kleykamp et al. | 358/118 | July 13, 1981 |
| | 4,434,464 | Feb. 28, 1984 | Suzuki et al. | 364/200 | Mar. 31, 1981 |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|---|---------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|----------------|------------------|--------------------|------------------|
| | 4,446,519 | May 1, 1984 | Thomas | 364/200 | May 26, 1981 |
| | 4,449,247 | May 15, 1984 | Waschka, Jr. | 455/9 | Jul. 30, 1980 |
| | 4,451,701 | May 29, 1984 | Bendig | 179/2 TV | Oct. 11, 1983*** |
| | 4,467,139 | Aug. 21, 1984 | Mollier | 178/22.08 | Mar. 12, 1981 |
| | 4,467,356 | Aug. 21, 1984 | McCoy | 358/146 | Sept. 24, 1981 |
| | 4,471,163 | Sept. 11, 1984 | Donald et al. | 178/22.08 | Oct. 5, 1981 |
| | 4,471,164 | Sept. 11, 1984 | Henry | 178/22.11 | Oct. 13, 1981 |
| | 4,475,123 | Oct. 2, 1984 | Dumbauld et al. | 358/114 | Apr. 2, 1981 |
| | 4,488,179 | Dec. 11, 1984 | Krüger et al. | 358/181 | Sept. 23, 1981 |
| | 4,491,983 | Jan. 1, 1985 | Pinnow et al. | 455/612 | Apr. 29, 1982*** |
| | 4,513,174 | Apr. 23, 1985 | Herman | 178/22.08 | Mar. 19, 1981 |
| | 4,528,588 | July 9, 1985 | Löfberg | 358/122 | Sept. 25, 1981 |
| | 4,528,589 | July 9, 1985 | Block et al | 358/122 | Feb. 1, 1984*** |
| | 4,536,791 | Aug. 20, 1985 | Campbell et al. | 358/122 | Mar. 31, 1981 |
| | 4,593,353 | June 3, 1986 | Pickholtz | 364/200 | Oct. 26, 1981 |
| | 4,598,288 | July 1, 1986 | Yarbrough et al. | 340/825.34 | Dec.20, 1983*** |
| | 4,689,661 | Aug. 25, 1987 | Barbieri et al. | 358/12 | June 22, 1981 |
| | 4,752,834 | June 21, 1988 | Koombes | 358/335 | Aug. 31, 1981 |
| | 4,862,268 | Aug. 29, 1989 | Campbell et al. | 358/141 | Apr. 18, 1985*** |
| | Re. 31,735 | Nov. 13, 1984 | Davidson | 358/124 | July 26, 1982*** |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|---|---------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

* - If pertinent

*** - Claims priority from parent application filed prior to Nov. 3, 1981

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY | CLASS/ SUBCLASS | TRANSLATION | |
|---------------------|--------------------|---------------------|-----------------|--------------------|-------------|----|
| | | | | | YES | NO |
| | WO 81/02961 | Oct. 15, 1981 | PCT Application | H04N 7/16, 7/04 | n/a | |
| | 1 554 411 | Oct. 17, 1979 | Great Britain | H04b 3/54 | | X |
| | 2 034 995 | June 11, 1980 | Great Britain | H03J 7/18, 5/00 | | X |
| | 23 38 380 | Feb. 13, 1975 | Germany | | abstract | X |
| | 29 18 846 | Nov. 13, 1980 | Germany | F26B 12/02 | X | |
| | 56-47179 | Apr. 28, 1981 | Japan | | X | |
| | | | | | | |

OTHER DOCUMENTS

| EXAMINER INITIAL | AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC. |
|---------------------|---|
| | James, A., "ORACLE - Broadcasting the Written Word," <u>Wireless Word</u> , July 1975. |
| | Carne, E. Bryan, "The Wired Household," <u>IEEE Spectrum</u> , October 1979, p. 61-66. |
| | McKenzie, G.A., "ORACLE - An Information Broadcasting Service Using Data Transmission in the Vertical Interval," <u>Journal of the SMPTE</u> , vol. 83, Number 1, January 1974, pp. 6-10. |
| | Edwardson, S.M., "CEEFAX: A Proposed New Broadcasting Service," <u>Journal of the SMPTE</u> , January 1974, p. 14-19. |
| | J. Chiddix, "Automated Videotape Delay of Satellite Transmissions," <u>Satellite Communications Magazine</u> , May 1978 (reprint - 2 pages). |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|---|---------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

| EXAMINER INITIAL | AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC. |
|---------------------|---|
| | J. Chiddix, "Tape Speed Errors in Line-Locked Videocassette Machines For CATV Applications," <u>TVC</u> , November 1977 (reprint - 2 pages). |
| | CRC Electronics, Inc. Product Description, "Model TD-100 - Time Delay Videotape Controller," 2 pages. |
| | CRC Electronics, Inc., NET PRICE LIST - March 1, 1980 (TD-100 Time Delay Videotape Controller), 1 page. |
| | CRC Electronics, Inc. Product Description, "Model P-1000 Videocassette Programmer," 4 pages. |
| | CRC Electronics, Inc., NET PRICE LIST - July 31, 1981 (P-1000 Video Machine Programmer), 1 page. |
| | Tunmann, E.O. et al. (Tele-Engineering Corp.), "Microprocessor For CATV Systems," <u>Cable 78 - Technical Papers</u> , National Cable Television Association 27th Annual Convention, New Orleans, LA, April 30-May 3, 1978 (" <u>Cable 78</u> "), pp. 70-75. |
| | Vega, Richard L. (Telecommunications Systems, Inc.), "From Satellite to Earth Station to Studio to S-T-L To MDS Transmitter To The Home; Pay Television Comes To Anchorage, Alaska," <u>Cable 78</u> , pp. 76-80. |
| | Wright, James B. et al. (Rockford Cablevision, Inc.), "The Rockford Two-Way Cable Project: Existing and Projected Technology," <u>Cable 78</u> , pp. 20-28. |
| | Fannetti, John D. et al. (City of Syracuse), "The Urban Market: Paving the Way for Two-Way Telecommunications," <u>Cable 78</u> , pp. 29-33. |
| | Schnee Rolf M. et al. (Heinrich-Hertz-Institut Berlin (West)), "Technical Aspects of Two-Way CATV Systems in Germany," <u>Cable 78</u> , pp. 34-41. |
| | Dickinson, Robert V.C. (E-Com Corporation), "A Versatile, Low Cost System for Implementing CATV Auxiliary Services," <u>Visions '79 - Technical Papers</u> , National Cable Television Association 28th Annual Convention, Las Vegas, NV, May 20-23, 1979, (" <u>Visions '79</u> "), pp. 65-72. |
| | Evans, William E. et al. (Manitoba Telephone System), "An Intercity Coaxial Cable Electronic Highway," <u>Visions '79</u> , pp. 73-79. |
| | Schrock, Clifford B. (C.B. Schrock and Associates, Inc.), "Pay Per View, Security, and Energy Controls Via Cable: The Rippling River Project," <u>Visions '79</u> , pp. 80-85. |
| | Southworth, Glen (Colorado Video, Inc.), "Narrow-Band Video: The UPI 'Newstime' Technology," <u>Visions '79</u> , pp. 86-88. |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|---|---------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

| EXAMINER INITIAL | AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC. |
|---------------------|--|
| | Daly IV, Raymond E. (Computer Cablevision, Inc.), "Potential Use of Microcomputers - The Threats to Technical Personnel, Manufacturers And Owners," <u>Visions '79</u> , pp. 124-26. |
| | Grabenstein, James B. (Potomac Valley Television Co., Inc.), "System Design and Operation with 'Basic'," <u>Visions '79</u> (Appendix B), p. 127. |
| | Amell, Richard L. (Cox Cable Communications, Inc.), "Computer-Aided CATV System Design," <u>Visions '79</u> , pp. 128-33. |
| | Yoshino, Hirokazu et al. (Matsushita Electric Industrial Co., Ltd.), "Multi-Information System Using Fiber Optics," <u>Visions '79</u> , pp. 134-137. |
| | Albright, Thomas G. (Printer Terminal Communications Corporation), "Cable Service: A Data Distribution Link," <u>Visions of the 80's - Technical Papers</u> , National Cable Television Association 29th Annual Convention, Dallas, TX, May 18-21, 1980 (" <u>Visions of the 80's</u> "), pp. 30-34. |
| | Blineau, Joseph J. (Centre Commun d'Études de Télévision et Télécommunications), "Measuring Methods and Equipments for Data Packet Broadcasting," <u>Visions of the 80's</u> , pp. 35-39. |
| | Katz, Harold W. (Interactive Systems/3M), "Status Report on EIA Broadband Modem Standards," <u>Visions of the 80's</u> , pp. 40-44. |
| | Lopinto, John J. (Home Box Office), "Considerations for Implementing Teletext in the Cable System," <u>Visions of the 80's</u> , pp. 45-48. |
| | O'Brien, Jr., Thomas E. (General Instrument Corporation), "System Design Criteria of Addressable Terminals Optimized for the CATV Operator," <u>Visions of the 80's</u> , pp. 89-91. |
| | Ost, Clarence S. et al. (Electronic Mechanical Products Co.), "High-Security Cable Television Access System," <u>Visions of the 80's</u> , pp. 92-94. |
| | Bacon, John C. (Scientific-Atlanta, Inc.), "Is Scrambling the Only Way?," <u>Visions of the 80's</u> , pp. 95-98. |
| | Davis, Allen (Home Box Office), "Satellite Security," <u>Visions of the 80's</u> , pp. 99-100. |
| | Mannino, Joseph A. (Applied Date Research, Inc.), "Computer Applications in Cable Television," <u>Visions of the 80's</u> , pp. 116-17. |
| | Beck, Ann et al. (Manhattan Cable TV), "An Automated Programming Control System for Cable TV," <u>Visions of the 80's</u> , pp. 122-27. |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|---|---------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

| EXAMINER INITIAL | AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC. |
|---------------------|---|
| | Schloss, Robert E. et al. (Omega Communications, Inc.), "Controlling Cable TV Head Ends and Generating Messages by Means of a Micro Computer," <u>Visions of the 80's</u> , pp. 136-38. |
| | Eissler, Charles O. (Oak Communications, Inc.), "Addressable Control," <u>Cable: '81 The Future of Communications - Technical Papers</u> , National Cable Television Association 30th Annual Convention, Los Angeles, CA, May 29-June 1, 1981 (" <u>Cable: '81</u> "), pp. 29-33. |
| | Schoeneberger, Carl F. (TOCOM, Inc.), "Addressable Terminal Control Using the Vertical Interval," <u>Cable: '81</u> , pp. 34-40. |
| | Stern, Joseph L. (Stern Telecommunications Corporation), "Addressable Taps," <u>Cable: '81</u> , p. 41. |
| | Brown, Larry C. (Pioneer Communications of America), "Addressable Control - A Big First Step Toward the Marriage of Computer, Cable, and Consumer," <u>Cable: '81</u> , pp. 42-46. |
| | Grabowski, Ralph E. (VISIONtec), "The Link Between the Computer and Television," <u>Cable: '81</u> , pp. 99-100. |
| | Ciciora, Ph.D., W.S. (Zenith Radio Corporation), "VIRTEXT & VIRDATA: Adventures in Vertical Interval Signaling," <u>Cable: '81</u> , pp. 101-04. |
| | Gilbert, Bill et al. (TEXSCAN Corporation), "Automatic Status Monitoring for a CATV Plant," <u>Cable: '81</u> , pp. 124-28. |
| | Ciciora, Walter et al., "An Introduction to Teletext and Viewdata with Comments on Compatibility," <u>IEEE Transactions on Consumer Electronics</u> , Vol. CE-25, No. 3, July 1979 (" <u>Consumer Electronics</u> "), pp. 235-45. |
| | Tanton, N.E. "UK Teletext - Evolution And Potential," <u>Consumer Electronics</u> , pp. 246-50. |
| | Bright, Roy D., "Prestel - The World's First Public Viewdata Service," <u>Consumer Electronics</u> , pp. 251-55. |
| | Bown, H.G. et al., "Telidon: A New Approach to Videotex System Design," <u>Consumer Electronics</u> , pp. 256-68. |
| | Chitnis, A.M. et al., "Videotex Services: Network and Terminal Alternatives," <u>Consumer Electronics</u> , pp. 269-78. |
| | Hedger, J. "Telesoftware: Home Computing Via Broadcast Teletext," <u>Consumer Electronics</u> , pp. 279-87. |
| | Crowther, G.O., "Teletext and Viewdata Systems and Their Possible Extension to Europe and USA," <u>Consumer</u> |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|---|--------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey and James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

| EXAMINER INITIAL | AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC. |
|---------------------|--|
| | <u>Electronics</u> , pp. 288-94. |
| | Gross, William S., "Info-Text, Newspaper of the Future," <u>Consumer Electronics</u> , pp. 295-97. |
| | Robinson, Gary et al., "'Touch-Tone' Teletext - A Combined Teletext-Viewdata System," <u>Consumer Electronics</u> , pp. 298-303. |
| | O'Connor, Robert A., "Teletext Field Tests," <u>Consumer Electronics</u> , pp. 304-10. |
| | Blank, John, "System and Hardware Considerations of Home Terminals With Telephone Computer Access," <u>Consumer Electronics</u> , pp. 311-17. |
| | Plummer, Robert P. et al., "4004 Futures for Teletext and Videotex in the U.S.," <u>Consumer Electronics</u> , pp. 318-26. |
| | Marti, B. et al., "The Antiope Videotex System," <u>Consumer Electronics</u> , pp. 327-33. |
| | Frandon, P. et al., "Antiope LSI," <u>Consumer Electronics</u> , pp. 334-38. |
| | Crowther, G.O., "Teletext and Viewdata Costs As Applied to the U.S. Market," <u>Consumer Electronics</u> , pp. 339-44. |
| | Mothersole, Peter L., "Teletext Signal Generation Equipment and Systems," <u>Consumer Electronics</u> , pp. 345-52. |
| | Harden, Brian, "Teletext/Viewdata LSI," <u>Consumer Electronics</u> , pp. 353-58. |
| | Swanson, E. et al., "An Integrated Serial to Parallel Converter for Teletext Application," <u>Consumer Electronics</u> , pp. 359-61. |
| | Neal, C. Bailey et al., "A Frequency-Domain Interpretation of Echoes and Their Effect on Teletext Data Reception," <u>Consumer Electronics</u> , pp. 362-77. |
| | Goyal, Shri K. et al., "Reception of Teletext Under Multipath Conditions," <u>Consumer Electronics</u> , pp. 378-92. |
| | Prosser, Howard F., "Set Top Adapter Considerations for Teletext," <u>Consumer Electronics</u> , pp. 393-99. |
| | Suzuki, Tadahiko et al., "Television Receiver Design Aspects for Employing Teletext LSI," <u>Consumer Electronics</u> , pp. 400-05. |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|---|---------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

| EXAMINER INITIAL | AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC. |
|---------------------|---|
| | Baer, Ralph H., "Tele-Briefs-A Novel User-Selectable Real Time News Headline Service for Cable TV," <u>Consumer Electronics</u> , pp. 406-08. |
| | Sherry, L.A., "Teletext Field Trials in the United Kingdom," <u>Consumer Electronics</u> , pp. 409-23. |
| | Clifford, Colin, "A Universal Controller for Text Display Systems," <u>Consumer Electronics</u> , pp. 424-429. |
| | Barlow, "The Design of an Automatic Machine Assignment System", <u>Journal of the SMPTE</u> , July 1975, Vol. 84, p. 532-537. |
| | Barlow, "The Automation of Large Program Routing Switchers", <u>SMPTE Journal</u> , July 1979, Vol. 88, p. 493-497. |
| | Barlow, "The Computer Control of Multiple-Bus Switchers", <u>SMPTE Journal</u> , September 1976, Vol. 85, p. 720-723. |
| | Barlow, "The Assurance of Reliability", <u>SMPTE Journal</u> , February 1976, Vol. 85, p. 73-75. |
| | Barlow, "Some Features of Computer-Controlled Television Station Switchers", <u>Journal of the SMPTE</u> , March 1972, Vol. 81, p. 179-183. |
| | Barlow et al., "A Universal Software for Automatic Switchers", <u>SMPTE Journal</u> , October 1978, Vol. 87, p. 682-683. |
| | Butler, "PCM-Multiplexed Audio in a Large Audio Routing Switcher", <u>SMPTE Journal</u> , November 1976, Vol. 85, p. 875-877. |
| | Dickson et al., "An Automated Network Center", <u>Journal of the SMPTE</u> , July 1975, Vol. 84, p. 529-532. |
| | Edmondson et al., "NBC Switching Central", <u>SMPTE Journal</u> , October 1976, Vol. 85, p. 795-805. |
| | Flemming, "NBC Television Central - An Overview", <u>SMPTE Journal</u> , October 1976, Vol. 85, p. 792-795. |
| | Horowitz, "CBS" New-Technology Station, WBBM-TV", <u>SMPTE Journal</u> , March 1978, Vol. 87, p. 141-146 |
| | Krochmal et al., "Television Transmission Audio Facilities at NBC New York", <u>SMPTE Journal</u> , October 1976, Vol. 85, p. 814-816. |
| | Kubota et al., "The Videomelter", <u>SMPTE Journal</u> , November 1978, Vol. 87, p. 753-754. |
| | Mausler, "Video Transmission Video Facilities at NBC New York", <u>SMPTE Journal</u> , October 1976, Vol. 85, p. |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|---|---------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

| EXAMINER INITIAL | AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC. |
|---------------------|---|
| | 811-814. |
| | Negri, "Hardware Interface Considerations for a Multi-Channel Television Automation System", <u>SMPTE Journal</u> , November 1976, Vol. 85, p. 869-872. |
| | Paganuzzi, "Communication in NBC Television Central", <u>SMPTE Journal</u> , November 1976, Vol. 85, p. 866-869. |
| | Roth et al., "Functional Capabilities of a Computer Control System for Television Switching", <u>SMPTE Journal</u> , October 1976, Vol. 85, p. 806-811. |
| | Rourke, "Television Studio Design - Signal Routing and Measurement", <u>SMPTE Journal</u> , September 1979, Vol. 88, p. 607-609. |
| | Yanney, "Sixty-Device Remote-Control System for NBC's Television Central Project", <u>SMPTE Journal</u> , November 1976, Vol. 85, p. 873-877. |
| | Young et al., "Developments in Computer-Controlled Television Switches", <u>Journal of the SMPTE</u> , August 1973, Vol. 82, p. 658-661. |
| | Young et al., "The Automation of Small Television Stations", <u>Journal of the SMPTE</u> , Oct. 1971, Vol. 80, p. 806-811. |
| | Zborowski, "Automatic Transmission Systems for Television", <u>SMPTE Journal</u> , June 1978, Vol. 87, p. 383-385. |
| | "Landmark forms cable weather news network," EDITOR & PUBLISHER, (August 8, 1981) p. 15. |
| | "Broadcast Teletext Specification," published jointly by British Broadcasting Corporation, Independent Broadcasting Authority, British Radio Equipment Manufacturers' Association (September 1976), pp. 1-24. |
| | "Colormax Cable captioning - 16,000,000 Subs NEED It!," Colormax Electronic Corp. (advertisement), 3 pages. |
| | "7609 Sat-A-Dat Decoder/Controller," Group W Satellite Communications (advertisement) 2 pages. |
| | "Teletext Timing Chain Circuit (SAA5020)," (August 1978), pp. 109. |
| | "Teletext Video Processor (SAA 5030)," Mullard (December 1979), pp. 1-9. |
| | "Video Text Decoder Systems (Signetics)", <u>Phillips IC Product Line Summary</u> (May 1981), pp. 15-16. |
| | "Teletext Acquisition and Control Circuit (SAA5040 Series)," Mullard (June 1980), pp. 1-16. |
| | "Asynchronous Data Transmission System Series 2100 VIDATA," Wagener Communications, Inc. |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

| | | |
|--|---|---------------------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT Title: Signal Processing Apparatus and Method | Attorney Docket No. 5634.104 | Serial No. 08/446,553 |
| | Applicants John C. Harvey <i>and</i> James W. Cuddihy | |
| | Filing Date: May 19, 1995 | Group: 2602/348 |

| EXAMINER INITIAL | AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC. |
|---------------------|--|
| | (advertisement), 2 pages. |
| | "Zenith VIRTEXTM . . . Vertical Interval Region Text and Graphics," Zenith Radio Corporation (flyer), 7 pages. |
| | Anon, "Television Network Automated By Microcomputer-Controlled Channels," Computer Design, Vol. 15, no. 11, (Nov., 1976), pp. 50, 59, 62, 66 and 70. |
| | Kinik, et al., "A Network Control System For Television Distribution By Satellite," <u>Journal of The SMPTE</u> , Feb. 1975, vo. 84, no. 2, pp. 63-67. |
| | Chiddix, "Videocassette Banks Automate Delayed Satellite Programming," Aug. 1978, TV Communications, pp. 38-39. |
| | Curnal, et al., "Automating Television Operating Centers," Bell Laboratories Record, March, 1978, pp. 65 - 70. |

| | |
|---|-----------------|
| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | |

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :
John C. Harvey and James W. Cuddihy : Examiner:
Serial No. 08/446,553 : Group Unit: 2602
Filed 19-May-95 : Atty Dkt: 5634.104

For **SIGNAL PROCESSING APPARATUS AND METHODS**

COPENDING RELATED U.S. PATENT APPLICATIONS

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

Listed below are copending U.S. patent applications related to this application.

| <u>Application No.</u> | <u>Filing Date</u> | <u>Atty. Dkt.</u> |
|------------------------|--------------------|-------------------|
| 08/113,329 | 30-Aug-93 | 5634.008 |
| 08/397,371 | 2-March-95 | 5634.017 |
| 08/397,582 | 2-March-95 | 5634.010 |
| 08/397,636 | 2-March-95 | 5634.012 |
| 08/435,757 | 9-May-95 | 5634.036 |
| 08/435,758 | 9-May-95 | 5634.041 |
| 08/437,044 | 9-May-95 | 5634.047 |
| 08/437,045 | 9-May-95 | 5634.042 |
| 08/437,629 | 9-May-95 | 5634.044 |
| 08/437,635 | 9-May-95 | 5634.045 |
| 08/437,791 | 9-May-95 | 5634.040 |
| 08/437,819 | 9-May-95 | 5634.049 |
| 08/437,864 | 9-May-95 | 5634.038 |
| 08/437,887 | 9-May-95 | 5634.037 |
| 08/437,937 | 9-May-95 | 5634.048 |
| 08/438,011 | 9-May-95 | 5634.050 |
| 08/438,206 | 9-May-95 | 5634.039 |

| | | |
|------------|-----------|----------|
| 08/438,216 | 9-May-95 | 5634.046 |
| 08/438,659 | 9-May-95 | 5634.043 |
| 08/439,668 | 15-May-95 | 5634.062 |
| 08/439,670 | 15-May-95 | 5634.081 |
| 08/440,657 | 15-May-95 | 5634.051 |
| 08/440,837 | 15-May-95 | 5634.059 |
| 08/441,027 | 16-May-95 | 5634.053 |
| 08/441,033 | 15-May-95 | 5634.060 |
| 08/441,575 | 15-May-95 | 5634.056 |
| 08/441,577 | 15-May-95 | 5634.080 |
| 08/441,701 | 15-May-95 | 5634.052 |
| 08/441,749 | 16-May-95 | 5634.082 |
| 08/441,821 | 16-May-95 | 5634.085 |
| 08/441,880 | 16-May-95 | 5634.075 |
| 08/441,942 | 16-May-95 | 5634.061 |
| 08/441,996 | 16-May-95 | 5634.086 |
| 08/442,165 | 16-May-95 | 5634.087 |
| 08/442,327 | 16-May-95 | 5634.083 |
| 08/442,335 | 16-May-95 | 5634.088 |
| 08/442,369 | 16-May-95 | 5634.055 |
| 08/442,383 | 16-May-95 | 5634.074 |
| 08/442,505 | 16-May-95 | 5634.084 |
| 08/442,507 | 16-May-95 | 5634.089 |
| 08/444,643 | 19-May-95 | 5634.111 |
| 08/444,756 | 19-May-95 | 5634.107 |
| 08/444,757 | 19-May-95 | 5634.103 |
| 08/444,758 | 19-May-95 | 5634.114 |
| 08/444,781 | 19-May-95 | 5634.110 |
| 08/444,786 | 19-May-95 | 5634.100 |
| 08/444,787 | 19-May-95 | 5634.118 |
| 08/444,788 | 19-May-95 | 5634.109 |
| 08/444,887 | 19-May-95 | 5634.115 |
| 08/445,045 | 19-May-95 | 5634.108 |
| 08/445,054 | 19-May-95 | 5634.101 |
| 08/445,290 | 19-May-95 | 5634.113 |
| 08/445,294 | 19-May-95 | 5634.119 |
| 08/445,296 | 19-May-95 | 5634.105 |
| 08/445,328 | 19-May-95 | 5634.112 |
| 08/446,123 | 19-May-95 | 5634.116 |
| 08/446,124 | 19-May-95 | 5634.117 |
| 08/446,429 | 22-May-95 | 5634.151 |
| 08/446,430 | 22-May-95 | 5634.152 |
| 08/446,431 | 22-May-95 | 5634.150 |
| 08/446,432 | 22-May-95 | 5634.149 |
| 08/446,494 | 22-May-95 | 5634.154 |

| | | |
|------------|-----------|----------|
| 08/446,553 | 19-May-95 | 5634.104 |
| 08/446,579 | 19-May-95 | 5634.106 |
| 08/447,380 | 24-May-95 | 5634.125 |
| 08/447,414 | 23-May-95 | 5634.122 |
| 08/447,415 | 23-May-95 | 5634.129 |
| 08/447,416 | 23-May-95 | 5634.128 |
| 08/447,446 | 23-May-95 | 5634.135 |
| 08/447,447 | 23-May-95 | 5634.140 |
| 08/447,448 | 23-May-95 | 5634.132 |
| 08/447,449 | 23-May-95 | 5634.138 |
| 08/447,496 | 23-May-95 | 5634.121 |
| 08/447,502 | 23-May-95 | 5634.143 |
| 08/447,529 | 24-May-95 | 5634.144 |
| 08/447,611 | 23-May-95 | 5634.137 |
| 08/447,621 | 23-May-95 | 5634.156 |
| 08/447,679 | 23-May-95 | 5634.130 |
| 08/447,711 | 23-May-93 | 5634.153 |
| 08/447,712 | 23-May-95 | 5634.127 |
| 08/447,724 | 23-May-95 | 5634.131 |
| 08/447,726 | 23-May-95 | 5634.159 |
| 08/447,826 | 23-May-95 | 5634.126 |
| 08/447,908 | 23-May-95 | 5634.134 |
| 08/447,938 | 23-May-95 | 5634.133 |
| 08/447,974 | 23-May-95 | 5634.145 |
| 08/447,977 | 23-May-95 | 5634.141 |
| 08/448,099 | 23-May-95 | 5634.158 |
| 08/448,116 | 23-May-95 | 5634.157 |
| 08/448,141 | 23-May-95 | 5634.155 |
| 08/448,143 | 23-May-95 | 5634.120 |
| 08/448,175 | 23-May-95 | 5634.102 |
| 08/448,251 | 23-May-95 | 5634.142 |
| 08/448,309 | 23-May-95 | 5634.139 |
| 08/448,326 | 23-May-95 | 5634.123 |
| 08/448,643 | 24-May-95 | 5634.072 |
| 08/448,644 | 24-May-95 | 5634.163 |
| 08/448,662 | 24-May-95 | 5634.201 |
| 08/448,667 | 24-May-95 | 5634.179 |
| 08/448,794 | 24-May-95 | 5634.203 |
| 08/448,810 | 24-May-95 | 5634.177 |
| 08/448,833 | 24-May-95 | 5634.162 |
| 08/448,915 | 24-May-95 | 5634.069 |
| 08/448,916 | 24-May-95 | 5634.209 |
| 08/448,917 | 24-May-95 | 5634.165 |
| 08/448,976 | 24-May-95 | 5634.161 |
| 08/448,977 | 24-May-95 | 5634.071 |

| | | |
|------------|-----------|----------|
| 08/448,978 | 24-May-95 | 5634.181 |
| 08/448,979 | 24-May-95 | 5634.207 |
| 08/449,097 | 24-May-95 | 5634.208 |
| 08/449,110 | 24-May-95 | 5634.204 |
| 08/449,248 | 24-May-95 | 5634.171 |
| 08/449,263 | 24-May-95 | 5634.172 |
| 08/449,281 | 24-May-95 | 5634.183 |
| 08/449,291 | 24-May-95 | 5634.068 |
| 08/449,302 | 24-May-95 | 5634.147 |
| 08/449,351 | 24-May-95 | 5634.170 |
| 08/449,369 | 24-May-95 | 5634.058 |
| 08/449,411 | 24-May-95 | 5634.180 |
| 08/449,413 | 24-May-95 | 5634.174 |
| 08/449,523 | 24-May-95 | 5634.182 |
| 08/449,530 | 24-May-95 | 5634.124 |
| 08/449,531 | 24-May-95 | 5634.176 |
| 08/449,532 | 24-May-95 | 5634.205 |
| 08/449,652 | 24-May-95 | 5634.146 |
| 08/449,697 | 24-May-95 | 5634.175 |
| 08/449,702 | 24-May-95 | 5634.202 |
| 08/449,717 | 24-May-95 | 5634.067 |
| 08/449,718 | 24-May-95 | 5634.164 |
| 08/449,798 | 24-May-95 | 5634.206 |
| 08/449,800 | 24-May-95 | 5634.184 |
| 08/449,829 | 24-May-95 | 5634.178 |
| 08/449,867 | 24-May-95 | 5634.169 |
| 08/449,901 | 23-May-95 | 5634.136 |
| 08/450,680 | 24-May-95 | 5634.200 |
| 08/451,203 | 26-May-95 | 5634.079 |
| 08/451,377 | 26-May-95 | 5634.070 |
| 08/451,496 | 26-May-95 | 5634.057 |
| 08/451,746 | 26-May-95 | 5634.078 |
| 08/452,395 | 26-May-95 | 5634.065 |
| 08/458,566 | 2-Jun-95 | 5634.230 |
| 08/458,699 | 2-Jun-95 | 5634.247 |
| 08/458,760 | 2-Jun-95 | 5634.217 |
| 08/459,216 | 2-Jun-95 | 5634.218 |
| 08/459,217 | 2-Jun-95 | 5634.231 |
| 08/459,218 | 2-Jun-95 | 5634.256 |
| 08/459,506 | 2-Jun-95 | 5634.224 |
| 08/459,507 | 2-Jun-95 | 5634.232 |
| 08/459,521 | 2-Jun-95 | 5634.233 |
| 08/459,522 | 2-Jun-95 | 5634.238 |
| 08/459,788 | 2-Jun-95 | 5634.243 |
| 08/460,043 | 2-Jun-95 | 5634.215 |

| | | |
|------------|----------|----------|
| 08/460,081 | 2-Jun-95 | 5634.240 |
| 08/460,085 | 2-Jun-95 | 5634.239 |
| 08/460,120 | 2-Jun-95 | 5634.214 |
| 08/460,187 | 2-Jun-95 | 5634.220 |
| 08/460,240 | 2-Jun-95 | 5634.241 |
| 08/460,256 | 2-Jun-95 | 5634.254 |
| 08/460,274 | 2-Jun-95 | 5634.236 |
| 08/460,387 | 2-Jun-95 | 5634.219 |
| 08/460,394 | 2-Jun-95 | 5634.222 |
| 08/460,401 | 2-Jun-95 | 5634.242 |
| 08/460,556 | 2-Jun-95 | 5634.248 |
| 08/460,557 | 2-Jun-95 | 5634.245 |
| 08/460,591 | 2-Jun-95 | 5634.216 |
| 08/460,592 | 2-Jun-95 | 5634.225 |
| 08/460,634 | 2-Jun-95 | 5634.246 |
| 08/460,642 | 2-Jun-95 | 5634.244 |
| 08/460,668 | 2-Jun-95 | 5634.211 |
| 08/460,677 | 2-Jun-95 | 5634.221 |
| 08/460,711 | 2-Jun-95 | 5634.212 |
| 08/460,713 | 2-Jun-95 | 5634.253 |
| 08/460,743 | 2-Jun-95 | 5634.229 |
| 08/460,765 | 2-Jun-95 | 5634.255 |
| 08/460,766 | 2-Jun-95 | 5634.249 |
| 08/460,770 | 2-Jun-95 | 5634.237 |
| 08/460,793 | 2-Jun-95 | 5634.213 |
| 08/460,817 | 2-Jun-95 | 5634.223 |
| 08/466,887 | 6-Jun-95 | 5634.281 |
| 08/466,888 | 6-Jun-95 | 5634.270 |
| 08/466,890 | 6-Jun-95 | 5634.298 |
| 08/466,894 | 6-Jun-95 | 5634.276 |
| 08/467,045 | 6-Jun-95 | 5634.285 |
| 08/467,904 | 6-Jun-95 | 5634.284 |
| 08/468,044 | 6-Jun-95 | 5634.282 |
| 08/468,323 | 6-Jun-95 | 5634.292 |
| 08/468,324 | 6-Jun-95 | 5634.259 |
| 08/468,641 | 6-Jun-95 | 5634.263 |
| 08/468,736 | 6-Jun-95 | 5634.277 |
| 08/468,994 | 6-Jun-95 | 5634.297 |
| 08/469,056 | 6-Jun-95 | 5634.264 |
| 08/469,059 | 6-Jun-95 | 5634.288 |
| 08/469,078 | 6-Jun-95 | 5634.279 |
| 08/469,103 | 6-Jun-95 | 5634.300 |
| 08/469,106 | 6-Jun-95 | 5634.266 |
| 08/469,107 | 6-Jun-95 | 5634.294 |
| 08/469,108 | 6-Jun-95 | 5634.269 |

| | | |
|------------|----------|----------|
| 08/469,109 | 6-Jun-95 | 5634.296 |
| 08/469,355 | 6-Jun-95 | 5634.260 |
| 08/469,496 | 6-Jun-95 | 5634.290 |
| 08/469,517 | 6-Jun-95 | 5634.287 |
| 08/469,612 | 6-Jun-95 | 5634.280 |
| 08/469,623 | 6-Jun-95 | 5634.273 |
| 08/469,624 | 6-Jun-95 | 5634.262 |
| 08/469,626 | 6-Jun-95 | 5634.272 |
| 08/470,051 | 6-Jun-95 | 5634.268 |
| 08/470,052 | 6-Jun-95 | 5634.302 |
| 08/470,053 | 6-Jun-95 | 5634.291 |
| 08/470,054 | 6-Jun-95 | 5634.265 |
| 08/470,236 | 6-Jun-95 | 5634.278 |
| 08/470,447 | 6-Jun-95 | 5634.275 |
| 08/470,448 | 6-Jun-95 | 5634.293 |
| 08/470,476 | 6-Jun-95 | 5634.301 |
| 08/470,570 | 6-Jun-95 | 5634.289 |
| 08/470,571 | 6-Jun-95 | 5634.261 |
| 08/471,024 | 6-Jun-95 | 5634.299 |
| 08/471,191 | 6-Jun-95 | 5634.267 |
| 08/471,238 | 6-Jun-95 | 5634.271 |
| 08/471,239 | 6-Jun-95 | 5634.283 |
| 08/471,240 | 6-Jun-95 | 5634.286 |
| 08/472,066 | 6-Jun-95 | 5634.295 |
| 08/472,399 | 7-Jun-95 | 5634.305 |
| 08/472,462 | 7-Jun-95 | 5634.315 |
| 08/472,980 | 7-Jun-95 | 5634.353 |
| 08/473,213 | 7-Jun-95 | 5634.320 |
| 08/473,224 | 7-Jun-95 | 5634.187 |
| 08/473,484 | 7-Jun-95 | 5634.258 |
| 08/473,927 | 7-Jun-95 | 5634.333 |
| 08/473,996 | 7-Jun-95 | 5634.073 |
| 08/473,997 | 7-Jun-95 | 5634.364 |
| 08/473,998 | 7-Jun-95 | 5634.328 |
| 08/473,999 | 7-Jun-95 | 5634.342 |
| 08/474,119 | 7-Jun-95 | 5634.330 |
| 08/474,139 | 7-Jun-95 | 5634.324 |
| 08/474,145 | 7-Jun-95 | 5634.303 |
| 08/474,146 | 7-Jun-95 | 5634.186 |
| 08/474,147 | 7-Jun-95 | 5634.226 |
| 08/474,496 | 7-Jun-95 | 5634.360 |
| 08/474,674 | 7-Jun-95 | 5634.319 |
| 08/474,963 | 7-Jun-95 | 5634.098 |
| 08/474,964 | 7-Jun-95 | 5634.064 |
| 08/475,341 | 7-Jun-95 | 5634.160 |

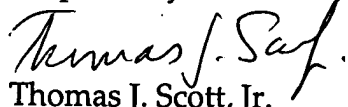
| | | |
|------------|----------|----------|
| 08/475,342 | 7-Jun-95 | 5634.234 |
| 08/477,547 | 7-Jun-95 | 5634.329 |
| 08/477,564 | 7-Jun-95 | 5634.340 |
| 08/477,570 | 7-Jun-95 | 5634.335 |
| 08/477,660 | 7-Jun-95 | 5634.090 |
| 08/477,711 | 7-Jun-95 | 5634.312 |
| 08/477,712 | 7-Jun-95 | 5634.173 |
| 08/477,805 | 7-Jun-95 | 5634.197 |
| 08/477,955 | 7-Jun-95 | 5634.188 |
| 08/478,044 | 7-Jun-95 | 5634.334 |
| 08/478,107 | 7-Jun-95 | 5634.309 |
| 08/478,544 | 7-Jun-95 | 5634.306 |
| 08/478,663 | 7-Jun-95 | 5634.099 |
| 08/478,767 | 7-Jun-95 | 5634.316 |
| 08/478,794 | 7-Jun-95 | 5634.347 |
| 08/478,858 | 7-Jun-95 | 5634.351 |
| 08/478,864 | 7-Jun-95 | 5634.167 |
| 08/478,908 | 7-Jun-95 | 5634.313 |
| 08/479,042 | 7-Jun-95 | 5634.352 |
| 08/479,215 | 7-Jun-95 | 5634.358 |
| 08/479,216 | 7-Jun-95 | 5634.341 |
| 08/479,217 | 7-Jun-95 | 5634.093 |
| 08/479,374 | 7-Jun-95 | 5634.148 |
| 08/479,375 | 7-Jun-95 | 5634.326 |
| 08/479,414 | 7-Jun-95 | 5634.359 |
| 08/479,523 | 7-Jun-95 | 5634.365 |
| 08/479,524 | 7-Jun-95 | 5634.054 |
| 08/479,667 | 7-Jun-95 | 5634.192 |
| 08/480,059 | 7-Jun-95 | 5634.063 |
| 08/480,060 | 7-Jun-95 | 5634.227 |
| 08/480,383 | 7-Jun-95 | 5634.349 |
| 08/480,392 | 7-Jun-95 | 5634.310 |
| 08/480,740 | 7-Jun-95 | 5634.343 |
| 08/481,074 | 7-Jun-95 | 5634.190 |
| 08/482,573 | 7-Jun-95 | 5634.096 |
| 08/482,574 | 7-Jun-95 | 5634.210 |
| 08/482,857 | 7-Jun-95 | 5634.311 |
| 08/483,054 | 7-Jun-95 | 5634.195 |
| 08/483,169 | 7-Jun-95 | 5634.338 |
| 08/483,174 | 7-Jun-95 | 5634.251 |
| 08/483,269 | 7-Jun-95 | 5634.307 |
| 08/483,980 | 7-Jun-95 | 5634.066 |
| 08/484,275 | 7-Jun-95 | 5634.323 |
| 08/484,276 | 7-Jun-95 | 5634.092 |
| 08/484,858 | 7-Jun-95 | 5634.362 |

| | | |
|------------|----------|----------|
| 08/484,865 | 7-Jun-95 | 5634.348 |
| 08/485,282 | 7-Jun-95 | 5634.361 |
| 08/485,283 | 7-Jun-95 | 5634.199 |
| 08/485,507 | 7-Jun-95 | 5634.304 |
| 08/485,772 | 7-Jun-95 | 5634.332 |
| 08/485,775 | 7-Jun-95 | 5634.077 |
| 08/486,258 | 7-Jun-95 | 5634.357 |
| 08/486,259 | 7-Jun-95 | 5634.257 |
| 08/486,265 | 7-Jun-95 | 5634.228 |
| 08/486,266 | 7-Jun-95 | 5634.337 |
| 08/486,297 | 7-Jun-95 | 5634.331 |
| 08/487,155 | 7-Jun-95 | 5634.308 |
| 08/487,397 | 7-Jun-95 | 5634.250 |
| 08/487,408 | 7-Jun-95 | 5634.356 |
| 08/487,410 | 7-Jun-95 | 5634.314 |
| 08/487,411 | 7-Jun-95 | 5634.318 |
| 08/487,428 | 7-Jun-95 | 5634.363 |
| 08/487,506 | 7-Jun-95 | 5634.350 |
| 08/487,516 | 7-Jun-95 | 5634.094 |
| 08/487,526 | 7-Jun-95 | 5634.355 |
| 08/487,536 | 7-Jun-95 | 5634.097 |
| 08/487,546 | 7-Jun-95 | 5634.325 |
| 08/487,556 | 7-Jun-95 | 5634.321 |
| 08/487,565 | 7-Jun-95 | 5634.327 |
| 08/487,649 | 7-Jun-95 | 5634.344 |
| 08/487,851 | 7-Jun-95 | 5634.252 |
| 08/487,893 | 7-Jun-95 | 5634.191 |
| 08/487,980 | 7-Jun-95 | 5634.076 |
| 08/487,981 | 7-Jun-95 | 5634.196 |
| 08/487,982 | 7-Jun-95 | 5634.095 |
| 08/487,984 | 7-Jun-95 | 5634.346 |
| 08/488,032 | 7-Jun-95 | 5634.189 |
| 08/488,058 | 7-Jun-95 | 5634.322 |
| 08/488,378 | 7 Jun 95 | 5634.339 |
| 08/488,383 | 7-Jun-95 | 5634.166 |
| 08/488,436 | 7-Jun-95 | 5634.336 |
| 08/488,438 | 7-Jun-95 | 5634.235 |
| 08/488,439 | 7-Jun-95 | 5634.185 |
| 08/488,619 | 7-Jun-95 | 5634.317 |
| 08/488,620 | 7-Jun-95 | 5634.354 |
| 08/498,002 | 7-Jun-95 | 5634.345 |
| 08/511,491 | 6-Jun-95 | 5634.274 |

REMARKS

In accordance with the duty of disclosure under 37 C.F.R. § 1.56(a), Applicants herewith submit a reference to all related copending U.S. Patent Applications now pending before the U.S. Patent and Trademark Office.

Date: December 13, 1995
HOWREY & SIMON
1299 Pennsylvania Avenue, NW
Washington, D.C. 20004
Tel: (202) 383-6614

Respectfully submitted,

Thomas J. Scott, Jr.
Reg. No. 27,836
Attorney for Applicants